

Today's Learning Goal(s):

By the end of the class, I will be able to:

- a) factor a "Perfect-Square Trinomial".
- b) factor a "Difference of Squares".

2.5 Factoring Quadratic Expressions: **Special Cases**

MCF 3MI

Date: _____
(Every lesson)

Ex.1 Factor completely (over the integers).

- a) $x^2 + 12x + 36$ b) $9x^2 - 12x + 4$ c) $25x^2 - 70x + 49$

Note: The above examples are all "perfect-square trinomials".

They can be recognized by:

Ex.2 Factoring a "Difference of Squares".

They can be recognized by:

- a) $x^2 - 1$ b) $x^2 - 81$ c) $4x^2 - 9y^2$ d) $4 - 9x^2$

Ex.2 Factoring a "Difference of Squares".

They can be recognized by:

a) $x^2 - 1$ b) $x^2 - 81$ c) $4x^2 - 9y^2$ d) $4 - 9x^2$

Ex.3 Factor completely (over the integers).

a) $12 - 48x^2$ b) $25y^6 - 100$ c) $4xy - 16xy^3$ d) $-8x^2 + 24x - 18$

Practice: pp. 115-116 # 3, 4abde, 11

READ pp. 118-119

pp. 120-121 # 9, 13, 16, 18